

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/005404

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E01H4/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 1 203 879 A (M. ALBERT CHARLES GERMAIN) 21 January 1960 (1960-01-21)  page 2, column 1, line 14 - column 2, line 22; figures 1-3	1,2, 9-15,19, 20,24, 33-37
X	EP 1 059 385 A (BRAENDLE METALLBAU AG) 13 December 2000 (2000-12-13)	1-13,15, 19,20, 24-28, 31,32 29,30
Y	paragraph [0021] paragraph [0024] - paragraph [0033]; figures  ----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"B" document member of the same patent family

Date of the actual completion of the international search

26 April 2005

Date of mailing of the international search report

24 05 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 586 275 A (HENRY ET AL) 6 May 1986 (1986-05-06) cited in the application column 2, line 47 - line 63; figures -----	29,30
X	DE 273 596 C (DR. EDUARD ARNOLD) 2 May 1914 (1914-05-02)  the whole document -----	1,7,8, 12,14, 20,33,34
X	US 2 225 207 A (CLUFF THOMAS WALKER) 17-December 1940 (1940-12-17) page 1, column 2, line 13 - line 38; figures -----	1,12,13, 20,28
A	WO 02/097198 A (SIEMENS AKTIENGESELLSCHAFT; HELLWIG, FRIEDRICH-WILHELM) 5 December 2002 (2002-12-05) page 7, paragraph 2 - last paragraph -----	20-23
A	WO 02/093106 A (KALANNIN KASPEK OY; PIRILAE, TIMO) 21 November 2002 (2002-11-21) page 4, last paragraph - page 5, paragraph 1 -----	9,20-23

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### Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-37

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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International Application No. PCT/ GB2004/ 005404

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-37

Ice rink resurfacing device  
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2. claims: 38-43

Heater device  
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3. claims: 44-46

Wheel  
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4. claims: 47-51

Winch system  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005404

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 1203879	A	21-01-1960	NONE	
EP 1059385	A	13-12-2000	EP 1059385 A1	13-12-2000
US 4586275	A	06-05-1986	CA 1193163 A1	10-09-1985
DE 273596	C		NONE	
US 2225207	A	17-12-1940	NONE	
WO 02097198	A	05-12-2002	DE 20108881 U1 WO 02097198 A1 EP 1390583 A1	04-07-2002 05-12-2002 25-02-2004
WO 02093106	A	21-11-2002	FI 5108 U1 CA 2446816 A1 EP 1393015 A1 WO 02093106 A1 US 2004187357 A1	25-10-2001 21-11-2002 03-03-2004 21-11-2002 30-09-2004